

IN THE SPECIFICATION

Please amend the paragraph on page 1, lines 4-14 as follows:

--       The invention also relates to a non-linear compensator for use in a receiver for receiving modulated coded signals and comprising a phase-shift-keying demodulator for demodulating said signals and comprising a differential detector for decoding said signals, and to a transceiver comprising a transmitter with a differential coder and a phase-shift-keying modulator for transmitting modulated coded signals and comprising a receiver for receiving said modulated coded signals with a phase-shift-keying demodulator for demodulating said signals and a differential detector for decoding said signals, and to a method for receiving modulated coded signals and comprising the steps of demodulating said signals via phase-shift-keying demodulation and of decoding said signals, and to a processor-computer program product stored on a computer-readable medium that, when executed by a processor, configures the processor for receiving modulated coded signals and comprising the functions of demodulating said signals via phase-shift-keying demodulation and of decoding said signals.--.